ABSTRACT

A composite laminate bamboo sporting implement with an elongated handle having multiple layers of bamboo and an impact portion having multiple laminate layers affixed to the elongated handle suitable to strike, carry or throw a sporting object. Each of the elongated handle bamboo layers has an average thickness of 1.0 to 3.0 mm and both the handle and impact portion alternates in grain direction between adjoining bamboo layers at an angle between 30 to 90 degrees. Bamboo layers may be treated with a hydrogen peroxide solution to remove impurities and excess moisture thereby reducing the weight and maintaining the strength of the at least one impact portion bamboo layer. Additionally, at least one internal impact portion layer has at least a portion of aircraft-grade titanium alloy for strengthening the impact portion.